

## EAST Search History

| Ref # | Hits | Search Query  | Dbs                | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--------------------|------------------|---------|------------------|
| L1    | 83   | @pd < "20030219" and ((sigmoid adj function) same ( (other ) or ( different ) or (alter\$7 ))) same transfer)<br>@pd < "20030219" and (sigmoid same ( (other ) or ( different ) or (alter\$7 )))  | US-PGPUB;<br>USPAT | OR               | OFF     | 2006/04/05 12:42 |
| L2    | 80   | @pd < "20030219" and ("neural network" or "neural networks") and ( vehicle or car or automobile or truck or train or plane or aircraft or spacecraft) and yaw and roll and pitch<br>@pd < "20030219" and ("neural network" or "neural networks") and ( vehicle or car or automobile or truck or train or plane or aircraft or spacecraft) and yaw and (roll same pitch) | US-PGPUB;<br>USPAT | OR               | OFF     | 2006/04/06 08:55 |
| L3    | 78   | @pd < "20030219" and ("neural network" or "neural networks") and ( vehicle or car or automobile or truck or train or plane or aircraft or spacecraft) and ( yaw same (roll same pitch))   | US-PGPUB;<br>USPAT | OR               | OFF     | 2006/04/06 08:56 |
| L4    | 33   | @pd < "20030219" and ("neural network" or "neural networks") and (( vehicle or car or automobile or truck or train or plane or aircraft or spacecraft) same ( yaw same (roll same pitch)))  | US-PGPUB;<br>USPAT | OR               | OFF     | 2006/04/06 08:56 |
| S1    | 1    | "20040162644"   | US-PGPUB;<br>USPAT | OR               | OFF     | 2006/04/05 17:36 |
| S2    | 1    | "20040162644" and second  | US-PGPUB;<br>USPAT | OR               | OFF     | 2006/04/05 13:16 |
| S3    | 1    | "20040162644" and rnn   | US-PGPUB;<br>USPAT | OR               | OFF     | 2006/04/05 09:56 |
| S4    | 1    | "20040162644" and hereditary  | US-PGPUB;<br>USPAT | OR               | OFF     | 2006/04/05 10:37 |
| S5    | 2    | @pd < "20030219" and "hereditary algorithm" and "neural network"  | US-PGPUB;<br>USPAT | OR               | OFF     | 2006/04/05 12:26 |
| S6    | 5212 | @pd < "20030219" and hierarchical adj structure   | US-PGPUB;<br>USPAT | OR               | OFF     | 2006/04/05 11:00 |
| S7    | 1    | "20040162644" and hierarchical adj structure  | US-PGPUB;<br>USPAT | OR               | OFF     | 2006/04/05 11:04 |

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|     |     |   |                    |    |     |                  |
|-----|-----|---|--------------------|----|-----|------------------|
| S8  | 1   | "20020045958" and optimal   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 11:20 |
| S9  | 0   | "20040162644" and frst  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 11:12 |
| S10 | 1   | "20040162644" and first   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 11:12 |
| S11 | 0   | "20020045958" and motion  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 11:21 |
| S12 | 1   | "20020045958" and vehicle   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 15:30 |
| S13 | 0   | "20020045958" and efficient   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:18 |
| S14 | 1   | "20020045958" and Max\$6  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:49 |
| S15 | 0   | "20020045958" and min\$6  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 11:42 |
| S16 | 1   | "20020045958" and optimum   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 11:43 |
| S17 | 0   | @pd < "20030219" and ((sigmoid adj function) with( (non-sigmoid adj function) or ( non adj sigmoid adj function)))  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:28 |
| S18 | 0   | @pd < "20030219" and ((sigmoid adj function) with ( (non-sigmoid adj function) or ( non adj sigmoid adj function))) | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:30 |
| S19 | 0   | @pd < "20030219" and ((sigmoid adj function) same ( (non-sigmoid adj function) or ( non adj sigmoid adj function))) | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:29 |
| S20 | 0   | @pd < "20030219" and (( (non-sigmoid adj function) or ( non adj sigmoid adj function)))                             | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:28 |
| S21 | 792 | @pd < "20030219" and (sigmoid adj function)   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:29 |
| S22 | 0   | @pd < "20030219" and (non-sigmoid adj function)   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:29 |
| S23 | 0   | @pd < "20030219" and ("non sigmoid" adj function)   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:30 |

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|     |     |   |                    |    |     |                  |
|-----|-----|---|--------------------|----|-----|------------------|
| S24 | 3   | @pd<"20030219" and "non sigmoid"  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:34 |
| S25 | 0   | @pd<"20030219" and (sigmoid with ( (non-sigmoid adj function) or ( non adj sigmoid adj function)))                | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:35 |
| S26 | 0   | @pd<"20030219" and (sigmoid same ( (non-sigmoid adj function) or ( non adj sigmoid adj function)))                | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:30 |
| S27 | 5   | Stinchcombe.in.   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:34 |
| S28 | 0   | Stinchcombe.in. and sigmoid   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:35 |
| S29 | 0   | @pd<"20030219" and (sigmoid with ( (other adj function) or ( different adj function) or (alter\$7 adj function))) | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:56 |
| S30 | 0   | @pd<"20030219" and (sigmoid same ( (other adj function) or ( different adj function) or (alter\$7 adj function))) | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:38 |
| S31 | 372 | @pd<"20030219" and (sigmoid same ( (other ) or ( different ) or (alter\$7 )))                                     | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:39 |
| S32 | 104 | @pd<"20030219" and ((sigmoid adj function) same ( (other ) or ( different ) or (alter\$7 )))                      | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:43 |
| S33 | 55  | S32 and transfer  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:43 |
| S34 | 1   | "20020045958" and networks  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:50 |
| S35 | 100 | @pd<"20030219" and (multiple near networks) and (neural network) and vehicle                                      | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:40 |
| S36 | 273 | @pd<"20030219" and (multiple near3 networks) and (neural network) and vehicle                                     | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:57 |
| S37 | 100 | @pd<"20030219" and (multiple near1 networks) and (neural network) and vehicle                                     | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:58 |
| S38 | 0   | @pd<"20030219" and ((using or employing) adj multiple adj networks) and (neural network) and vehicle              | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:58 |
| S39 | 7   | @pd<"20030219" and ((using or employing) adj multiple adj networks) and (neural network)                          | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:59 |

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|     |    |   |                    |    |     |                  |
|-----|----|---|--------------------|----|-----|------------------|
| S40 | 45 | @pd < "20030219" and ( multiple adj neural adj networks)  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 12:59 |
| S41 | 11 | @pd < "20030219" and ( multiple adj neural adj networks) and vehicle  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:03 |
| S42 | 1  | "20020082756" and parameter   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:03 |
| S43 | 0  | "20040162644" and S11   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:17 |
| S44 | 1  | "20040162644" and optimizing adj unit   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:17 |
| S45 | 1  | "20020045958" and optimal adj process   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:33 |
| S46 | 1  | "20020045958" and parameters  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:34 |
| S47 | 1  | "20020045958" and output  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 14:27 |
| S48 | 0  | @pd < "20030219" and (multiple near networks) and (multiple near outputs) and vehicle   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:40 |
| S49 | 0  | @pd < "20030219" and (multiple near networks) and (multiple near2 outputs) and vehicle  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 14:38 |
| S50 | 4  | @pd < "20030219" and (multiple near2 networks) and (multiple near2 outputs) and vehicle   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:43 |
| S51 | 68 | @pd < "20030219" and (multiple near2 networks) and (multiple near2 outputs) not S50   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:44 |
| S52 | 8  | @pd < "20030219" and (multiple adj neural adj networks) and (multiple near2 outputs) not S50  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:45 |
| S53 | 0  | @pd < "20030219" and (multiple adj neural adj networks) and (multiple near2 outputs) not S50 and (neural adj network near3 connected) | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:46 |
| S54 | 5  | @pd < "20030219" and (multiple adj neural adj networks) and (multiple near2 outputs) not S50 and (neural adj network same connected)  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:46 |
| S55 | 3  | @pd < "20030219" and (multiple adj neural adj networks) and (multiple near2 outputs) not S50 and (neural adj network with connected)  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 13:46 |

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|     |      |   |                    |    |     |                  |
|-----|------|---|--------------------|----|-----|------------------|
| S56 | 1    | "20020045958" and parameter   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 14:32 |
| S57 | 1    | "20020045958" and input   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 14:32 |
| S58 | 1175 | @pd < "20030219" and "neural network" near2 output near4 "neural network"                     | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 14:39 |
| S59 | 313  | @pd < "20030219" and (("neural network" with output) near4 "neural network")                  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 14:40 |
| S60 | 1    | @pd < "20030219" and (("neural network" near2 output) adj2 (input near2 "neural network"))    | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 14:48 |
| S61 | 13   | @pd < "20030219" and (("neural network" near2 output) adj4 (input near2 "neural network"))    | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 14:57 |
| S62 | 90   | @pd < "20030219" and "road surface" and "neural network"                                      | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 15:00 |
| S63 | 36   | @pd < "20030219" and ("road surface" same speed) and "neural network"                         | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 15:02 |
| S64 | 22   | @pd < "20030219" and (input same "road surface") and ( input same speed) and "neural network" | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 15:02 |
| S65 | 1    | "20020045958" and optional  | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 15:30 |
| S66 | 0    | "20040162644" and non-sigmoid   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 17:37 |
| S67 | 1    | "20040162644" and non-sigmoid   | US-PGPUB;<br>USPAT | OR | OFF | 2006/04/05 17:37 |